

Conduct of Engineering Request for Variance or Alternate Method

To display the *VAR Request Metadata* pane for this document, click **File > Info > Properties > Show Document Panel.**

1.0 General

1.1 Document Number: VAR-10066	1.2 Revision: 0
1.3 Brief Descriptive Title: Electronic Drawing Approval	
1.4 Affected Program: Engineering Standards	1.5 Request Type: Alternate Method
1.6a Affected Tech Area 99	1.6b Affected Buildings Sitewide
1.7 Requestor: Burnett, Mel Organization: ES-FE	

2.0 Affected Conduct of Engineering Program/Documents

2.1 Affected 'P' Document: P342 Engineering Standards If against the 'P' document itself, revision: n/a	2.2 Subordinate or related document(s) [AP, master spec, LANL ESM chapter & section; or code, Order, standard, etc.]: Document Title/No.: CAD Standards Manual, Sections 100 & 200 Revision 5
2.3 Section/Para: Section 103.1.0.B.6 (Revisions To Drawings); Section 202 (Title Blocks, except non-electronic Sketches); and Section 203 (Title Sheets, except non-electronic Sketches). Enter text..	
2.4 Specific Requirement(s) as Written in the Document(s): Various locations within the cited sections of the documents specifically mention "hand written signatures or initials" for the required approvals of each sheet of drawings.	
2.5 Contractual, preference, or other basis for requirement: The standard title block is based on the historical title block in use at LANL for many years. It was developed for traditional "wet" signatures of approval of the individual drawing sheets for procedural control of approving drawings and electronically produced sketches for implementation of design in the field.	
2.6 Type of VAR from ESM Chap 1, Z10 [Applies only to standards variances] Type 1	2.7 Discipline CAD

3.0 Request Information & Comments

3.1 NCR required (work has occurred)? **No**

If Yes, NCR Number: [Enter text.](#)

3.2 System/Component Affected

OpSystem Acronym & Name **N/A**

System Number or Name **N/A**

3.3 Highest ML Level

ML-1

3.4 Proposal with Justification/Compensatory Measures:

A modified drawing title block, similar in appearance to the standard title block but with approval blocks large enough to accommodate digital signatures utilizing validated certificates, is proposed. LANL signers must use Entrust while outside AEs will be allowed to use alternatives, including Acrobat.

This modified title block template will be available from the CAD POC for use by projects until proof of concept is established at which time it will be posted to the CAD Manual website as a revision to the current templates. Revision to the affected Sections of the CAD Manual itself will allow this Alternate Method to expire.

The elimination of large quantities of paper and printer ink consumption has a significant cost benefit. Additionally, eliminating scanning of signed hardcopy drawings (as the current practice requires) to electronic document formats greatly improves the functionality and usability of the final electronic document for its expected life.

3.5 Attachments

Document Title or Description **Digital signature titlesheet template; Digital signature titleblock template**

3.6 Project ID

Multiple

3.7 Duration:

Lifetime

3.8 Finite Period Start Date:

[Click to enter a date.](#)

3.9 End Date:

[\[EndDate\]](#)

3.10 When finite life, provide the PFITS number for tracking removal/correction: [\[PFITSNum\]](#)

3.11 USQD/USID required (Nuclear, High/Mod Hazard)? **No**

If Yes, USQD/USID Number [Click here to enter text.](#)

3.12 QA Review for process change matters potentially affecting LANL's NQA-1 implementation

Is a QPA Determination required?: **No** If **Yes**, then [Choose an item.](#)

QPA Comments: [Enter text..](#)

3.13 POC Determination: **Accept**

POC Comments: [Enter text..](#)

3.14 Management Program Owner's (SMPO) Approval for P341 and APs; P342, ESM and Contract Matters; and P343

SMPO Determination: [Choose an item.](#)

Comments: **n/a**

4.0 Participant Signatures *NOTE: All name fields are entered from the **purple People Picker** fields in the **VAR Request Metadata** pane. Use the first name listing if more than one.*

4.1 Facility Design Authority Representative [FDARName] FDAR signature not required <input checked="" type="checkbox"/>	Organization Enter text..	Signature
4.2 LANL Owning Manager (FOD or R&D/Program) [FODorPrgrMgrName] FOD or Program Manager signature not required <input checked="" type="checkbox"/>	Organization Enter text..	Signature
4.3 POC (Management Program Owner's Representative): Richardson, Scott C	Organization ES-EPD	Signature
4.4 Quality Reviewer's Name: [QPAName] QPA review/signature not required <input checked="" type="checkbox"/>	Organization Enter text.	Signature
4.5 Management Program Owner's Approval for P341 and APs; P342, ESM and Contract Matters; and P343 [SMPOName] SMPO signature not required for a Type 1 variance <input checked="" type="checkbox"/> Safety or Security Management Program Owner (SMPO)	Organization Enter text..	Signature